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=> S Arthrobacter (4A) (10192 or KNK1101J)  
L1 1 ARTHROBACTER (4A) (10192 OR KNK1101J)

=> d l1 bib ab

L1 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2009 ACS on STN  
AN 2005:823826 CAPLUS  
DN 143:224919  
TI D-Amidase from Arthrobacter that stereoselectively hydrolyze amino acid amides, and gene cloning  
IN Yanagisawa, Satohiro; Ueda, Makoto; Nanba, Hirokazu  
PA Kaneka Corporation, Japan  
SO PCT Int. Appl., 26 pp.  
CODEN: PIXXD2  
DT Patent  
LA Japanese  
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI WO 2005075650	A1	20050818	WO 2005-JP951	20050126
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			

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EP 1712627 A1 20061018 EP 2005-704094 20050126

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
IE, SI, LT, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS

PRAI JP 2004-28041 A 20040204

WO 2005-JP951 W 20050126

AB The present invention provides a novel amidase useful in producing an optically active amino acid, in particular, a D-amino acid and a process for producing the same. Namely, a novel D-amidase isolated and purified from *Arthrobacter* sp. KNK1101J strain; encoding gene, and recombinant expression in microbe; are provided. D-Amidase isolated and purified from *Arthrobacter* sp. KNK1101J strain was used to hydrolyze amino acid amides, D,L-phenylalanine amide hydrochloride, D,L-leucine amide hydrochloride. Racemic phenylalanine Et ester was hydrolyzed to produce D-phenylalanine with 29.7 mol% yield and 72.8% e.e. A gene encoding the D-amidase was cloned and expressed in *Escherichia coli*. The recombinant amidase hydrolyzed racemic phenylalanine Et ester to produce D-phenylalanine with 34.7 mol% yield and 53.6% e.e.

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